

ABSTRACT OF THE DISCLOSURE

A vehicle-onboard AC generator of a structure which allows the assembling of a stator of the AC generator to be easily automatized for rationalization of AC generator manufacturing process while ensuring suppression of heat generation as well as enhanced cooling function during operation of the generator. A stator (8) is constituted by a stator core (15) and a stator winding assembly including a plurality of stator windings (16). A rotor (7) is disposed, being enclosed by the stator core (15). A rectifier device (12) is provided for rectifying an AC power taken out from the stator winding assembly (16). In the stator (8), a plurality of outgoing conductors forming output conductor end portions (a1; a2, b1; b2 and c1; c2) and connecting conductor end portions (Na1, Na2, Nb1, Nb2, Nc1 and Nc2), respectively, are brought out substantially in parallel with a center axis of the stator core (15). The connecting conductor end portions (Na1, Na2, Nb1, Nb2, Nc1 and Nc2) are connected to an intermediate connecting member (30; 31; 32; 33; 34) provided separately from the rectifier device (12) and stationarily disposed on the stator (8) at a position offset laterally from the center axis thereof. The stator windings (16) are interconnected in a predetermined connection pattern through the medium of the intermediate connecting member. The output conductor end portions (a1, a2, b1, b2, c1 and c2) through which the AC power is taken out are connected to the rectifier device (12).